

Product datasheet for **AM00117PU-N**

Phosphoserine (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 16B4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	16B4
Applications:	ELISA, IP, WB
Recommended Dilution:	Western Blot: 1 µg/ml for HRPO/ECL detection. <i>Recommended blocking buffer:</i> BSA/Tween 20 based blocking buffer. DO NOT USE MILK OR CASEIN FOR BLOCKING! ELISA: 0.05 µg/ml. Immunoprecipitation: 1-10 µg per 10e6 pervanadate-treated A431 cells. Included Positive Control: Phosphoserine/Phosphothreonine (for details see " Protocols ").
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	Phosphopeptide conjugated to KLH.
Specificity:	AM00117PU-N recognizes a broad range of serine-phosphorylated proteins in crude cell extracts, preferring positively charged amino acids directly neighboured to phosphoserine.
Formulation:	1 ml 2x PBS containing 0.09% Sodium Azide, PEG and Sucrose State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 1.0 ml H ₂ O (15 min, RT).
Purification:	Size Exclusion Chromatography.
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 1 week.
Stability:	Shelf life: one year from despatch.



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Background:

Phosphorylation and dephosphorylation of cellular proteins are central steps in transducing extracellular signals to the cell nucleus. Phosphorylated epitopes may serve as docking sites for the assembly of protein complexes or may alter the 3-dimensional protein structure thus modulating enzymatic activity or the ability to undergo protein-protein-interactions. Modification of proteins on serine residues is mediated by serine/threonine kinases. Please note that phosphoserine detection by monoclonal antibodies is always dependent on the surrounding amino acid sequence!

Note:

Protocol: **Positive control: pSer / pThr Molecular Weight Marker**

Formulation:

The pSer/pThr molecular weight marker contains rabbit muscle phosphoproteins isolated by Fe³⁺/IDA - affinity chromatography. Proteins are lyophilized from PBS/NaF/PEG/Sucrose/ Bromophenolblue and Na - azide. After reconstitution the solution contains 0.09% Na-azide.

Stability:

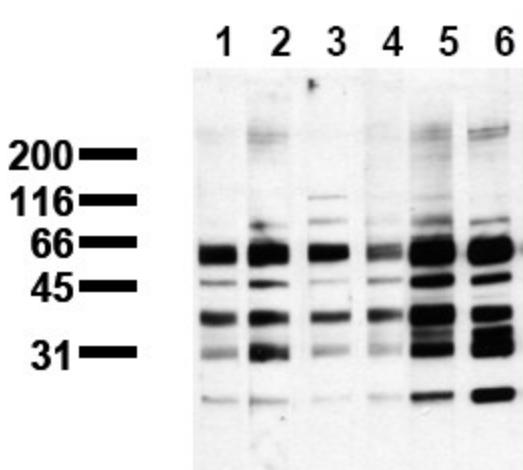
Reconstitute by addition of 200 µl H₂O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

Application:

The pSer/pThr molecular weight marker is recommended for immunoblot applications. Use 20µl molecular weight marker per lane. Note: Use BSA based blot incubation buffers. Milk, Casein and Blotto might interfere with antibody - antigen interaction.

Storage:

Aliquote and store frozen.
Avoid repeated freeze/thaw cycles.
Shelf life: one year from despatch.

Product images:


Phosphoserine Detection: Phosphoprotein Positive Control was probed with: Lane 1: mab 1C8 (IgM), 1 g/ml Lane 2: mab 4A3 (IgM), 1 g/ml Lane 3: mab 4A9 (IgM), 1 g/ml Lane 4: mab 4H4 (IgM), 1 g/ml Lane 5: mab 7F12 (IgG), 1 g/ml Lane 6: mab 16B4 (IgM), 1 g/ml